

IN THE CLAIMS

1-40. (Canceled)

41. (New) A processing system for a wireless mobile device for communication in a wireless communication network, said processing system comprising:

a component coordinator unit for providing application with a generic platform and network-independent framework that uses a platform and network-neutral set of application adaptation mechanisms, including a QoS negotiation and re-negotiation protocol; and

a QoS broker unit being managed by the component coordinator unit and coordinating local and remote resource management by using said negotiation and re-negotiation protocol.

42. (New) The processing system according to claim 41, wherein said protocol uses piggyback mechanisms for QoS negotiating and re-negotiating.

43. (New) The processing system according to claim 41, wherein said generic framework addresses different types of applications including existing applications and applications that rely on middleware.

44. (New) The processing system according to claim 41, wherein said generic framework is based on an application model in which each

application is allocated to one of a set of application classes having different QoS level with respect to resource usage.

45. (New) The processing system according to claim 44,
wherein fallback mechanisms are provided for a backward-compatibility between the application classes.

46. (New) The processing system according to claim 44,
wherein said generic framework is based on a communication model with different functional communication levels for exploiting the various resources in a coordinated manner so as to achieve the desired overall QoS level.

47. (New) The processing system according to claim 46,
wherein said communication levels include an application, a session, an association and a stream level.

48. (New) The processing system according to claim 41,
wherein the QoS broker unit coordinates an external network resource booker unit which manages network resource reservation mechanisms in an implementation independent way.

49. (New) The processing system according to claim 41,
further comprising a session manager unit being coordinated by the QoS broker

unit for establishing and managing sessions in an implementation independent way.

50. (New) The processing system according to claim 49,
further comprising one or more chain coordinator units being managed by the QoS
broker unit through the session manager unit and managing one or more component
chains, each chain being associated with a stream.

51. (New) The processing system according to claim 50,
further comprising one or more CPU-manager units coordinated by the chain
coordinator units for managing CPU-resource usage.

52. (New) The processing system according to claim 51,
further comprising a CPU-resource controller unit providing said CPU-manager
units with platform independent resource status information retrieval and control.

53. (New) The processing system according to claim 50,
further comprising one or more memory manager units coordinated by the chain
coordinator units for managing memory resource usage.

54. (New) The processing system according to claim 53,
further comprising a memory controlling unit for providing the memory manager
units with platform-independent resource status information retrieval and control.

55. (New) The processing system according to claim 50,
further comprising one or more network protocol manager units coordinated by
the chain coordinator units for managing network protocol resource usage.

56. (New) The processing system according to claim 55,
further comprising a network protocol controller unit for providing the network
protocol manager units with resource status information retrieval and control.

57. (New) The processing system according to claim 50,
further comprising one or more multimedia components coordinated by the chain
coordinator units for managing multimedia resources.

58. (New) The processing system according to claim 57,
further comprising a multimedia controller providing the multimedia component
units with platform independent resource status information retrieval and control.

59. (New) A computer readable storage medium for a wireless mobile device
with a component coordinator unit for communication in a wireless communication
network, said storage medium having a program stored therein for the purpose of
performing a method of providing applications, said method comprising the steps of:
providing applications with a generic platform and network-independent
framework which uses a platform and network-neutral set of application adaptation
mechanisms including a QoS negotiation and re-negotiation protocol; and

providing a QoS broker unit being managed by the component coordinator unit and coordinating local and remote resource management by using said negotiation and re-negotiation protocol.

60. (New) The computer readable storage medium according to claim 59, wherein said protocol uses piggyback mechanisms for QoS negotiating and re-negotiating.

61. (New) The computer readable storage medium according to claim 59, wherein said generic framework addresses different types of applications including existing applications and applications that rely on middleware.

62. (New) The computer readable storage medium according to claim 59, wherein said generic framework is based on an application model in which each application is allocated to one of a set of application classes having different QoS level with respect to resource usage.

63. (New) The computer readable storage medium according to claim 62, wherein fullback mechanisms are provided for a backward-compatibility between the application classes.

64. (New) The computer readable storage medium according to claim 62, wherein said generic framework is based on a communication model with

different functional communication levels for exploiting the various resources in a coordinated manner so as to achieve the desired overall QoS level.

65. (New) The computer readable storage medium according to claim 64, wherein said communication levels include an application, a session, an association and a stream level.

66. (New) The computer readable storage medium according to claim 59, further comprising a network resource booker unit being coordinated by the QoS broker unit and managing network resource reservation mechanisms in an implementation independent way.

67. (New) The computer readable storage medium according to claim 59, further comprising a session manager unit being coordinated by the QoS broker unit for establishing and managing sessions in an implementation independent way.

68. (New) The computer readable storage medium according to claim 67, further comprising one or more chain coordinator units being managed by the QoS broker unit through the session manager unit and managing one or more component chains, each chain being associated with a stream.

69. (New) The computer readable storage medium according to claim 68, further comprising one or more CPU-manager units coordinated by the chain

coordinator units for managing CPU-resource usage.

70. (New) The computer readable storage medium according to claim 69,
further comprising a CPU-resource controller unit providing said CPU-manager
units with platform independent resource status information retrieval and control.

71. (New) The computer readable storage medium according to claim 68,
further comprising one or more memory manager units coordinated by the chain
coordinator units for managing memory resource usage.

72. (New) The computer readable storage medium according to claim 71,
further comprising a memory controlling unit for providing the memory manager
units with platform-independent resource status information retrieval and control.

73. (New) The computer readable storage medium according to claim 68,
further comprising one or more network protocol manager units coordinated by
the chain coordinator units for managing network protocol resource usage.

74. (New) The computer readable storage medium according to claim 73,
further comprising a network protocol controller unit for providing the network
protocol manager units with resource status information retrieval and control.

75. (New) The computer readable storage medium according to claim 68,

further comprising one or more multimedia components coordinated by the chain coordinator units for managing multimedia resources.

76. (New) The computer readable storage medium according to claim 75, further comprising a multimedia controller providing the multimedia component units with platform independent resource status information retrieval and control.